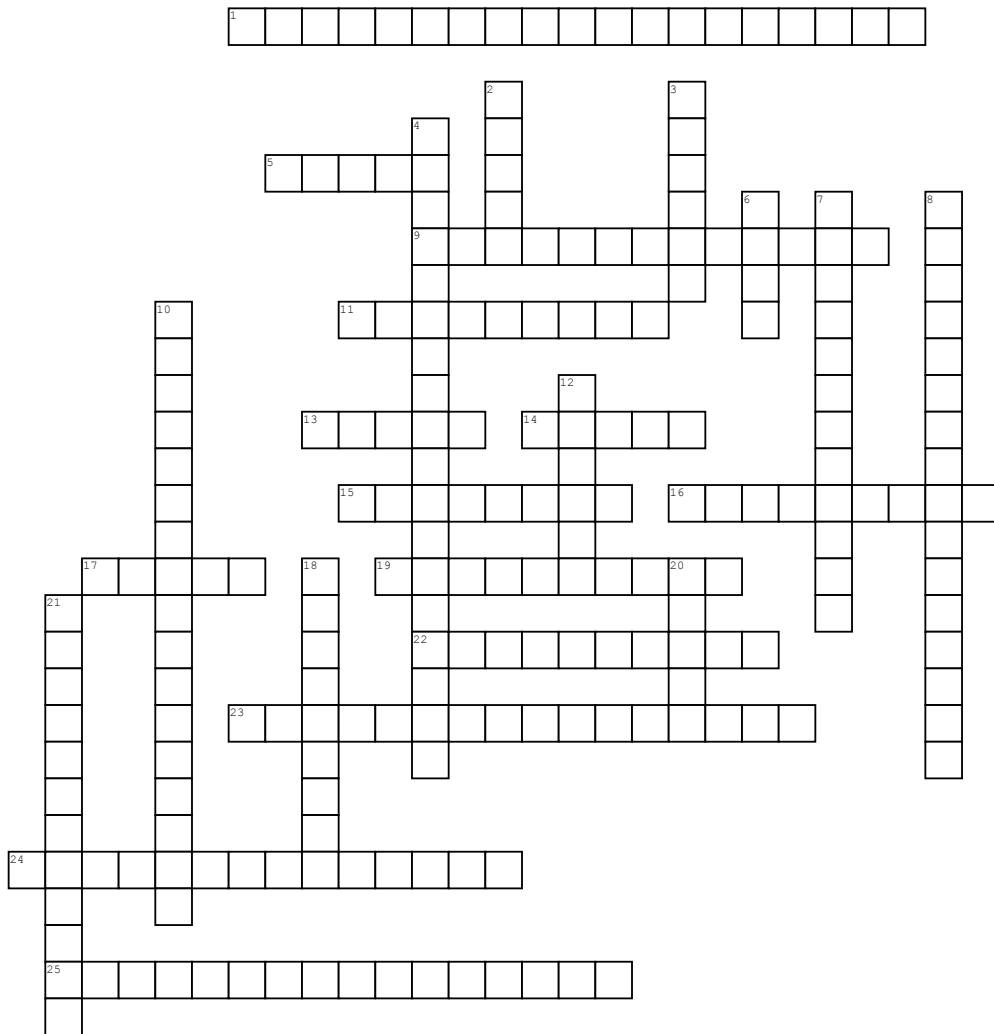


Rational Functions



Across

1. y-value where no value can exist

5. y-values a function fit into

9. a point at which a function is undefined

11. direction of inflection/inflecting

13. non-canceling factors in the numerator

14. vertical axis

15. non-removable discontinuity

16. having zero in the denominator

17. another word for discontinuities in graphs

19. quotient of the constant terms

22. relations between two different values

23. Any function that can be defined

24. degree of numerator > degree of denominator

25. $(-4, 0]$

Down

2. horizontal axis

3. x-values the a function fits into

4. constant in the front of the expression

6. discontinuity approached from 2 different values

7. unfactored form

8. An x-value with no y-value

10. non-canceling values in denominator

12. a number that when multiplied with another produces a number or expression

18. $y=ax+b$

20. removable discontinuity

21. how to figure the positive and negative factors

Word Bank

domain

y-axis

jump

slant asymptote

factor

point

zeros

infinite

standard form

Inequality

interval notation

horizontal asymptote

leading coefficient

discontinuity

concavity

slant form

range

y-intercept

x-axis

holes

vertical asymptote

Rational Function

undefined

restricted values

sign analysis